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THE SILVER INSTITUTE

A WORLDWIDE ASSOCIATION OF MINERS, REFINERS, FABRICATORS AND MANUFACTURERS

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SUITE 1138, 1001 CONNECTICUT AVENUE, N. W

WASHINGTON, D. C. 20036

MINE PRODUCTION OF SILVER IN 1983 WITH PROJECTIONS FOR 1984 1985 1986 1987

MINE PRODUCTION OF SILVER

This report presents the mine production of silver in all of the 58 countries of the world which are known to be now producing silver from mines. Of these, 49 are designated as International Trade Countries in this presentation since there is a continual movement of silver between them. The other 9 are Eastern Countries which do not participate so much in the international movements of silver.

The first group is divided into three sections: the 5 countries each producing more than 20 million troy ounces per year; the 20 countries each producing 1 million to 20 million troy ounces per year; and the 24 countries each producing less than 1 million troy ounces per year.

In all sections, figures for the countries are arranged in the order of size of mine production of silver in 1983. For each country, actual production in 1983 is given, as well as projected production for each of the years 1984, 1985, 1986 and 1987. Amounts are shown in millions of troy ounces for each country and groups of countries, with metric ton equivalents for each group of countries.

The figures here presented refer to mine production of silver on the "accountable" basis, indicating the amount of silver which is credited to the mining company.

Appreciation is expressed for the extraordinary cooperation of the 246 mining and related enterprises which provided the information and projections used in this report. Their names are listed alphabetically by country.

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November 1984

MINE PRODUCTION OF SILVER

ON ACCOUNTABLE BASIS

IN MILLIONS OF TROY OUNCES

INTERNATIONAL TRADE COUNTRIES	---ACTUAL---	----------PROJECTED----------			
	1983	1984	1985	1986	1987
Countries producing more than 20 million troy ounces per year:					
Mexico	61.4	67.0	74.1	77.0	78.2
Peru	55.9	55.2	58.5	60.0	60.1
United States	43.4	46.6	48.5	48.9	49.2
Canada	42.4	41.5	40.5	42.0	42.1
Australia	32.2	29.4	30.7	28.9	29.1
Subtotal	235.3	239.7	252.3	256.8	258.7
Equivalent in metric tons	*7,318*	*7,455*	*7,847*	*7,986*	*8,046*
Change from previous year		+2%	+5%	+2%	+1%
Countries producing 1 million to 20 million troy ounces in 1983:					
Chile	15.1	14.8	15.8	15.9	15.9
Japan	9.9	9.9	9.9	9.9	9.9
Bolivia	6.1	5.9	5.8	6.1	6.3
Sweden	5.7	5.7	6.1	6.2	6.1
South Africa	5.6	6.9	7.1	7.1	7.1
Spain	4.0	4.2	4.2	4.1	4.1
Yugoslavia	4.0	4.0	4.0	4.0	4.0
Namibia	3.5	3.6	3.7	3.8	3.8
South Korea	3.0	3.0	3.0	3.0	3.0
Morocco	2.9	2.8	2.7	2.7	2.7
Argentina	2.7	2.7	2.8	2.9	2.9
Honduras	2.5	2.5	2.8	2.8	2.9
Greece	2.2	1.7	1.8	1.8	1.8
Zaire	2.0	2.0	2.0	2.0	2.0
Philippines	1.9	1.9	2.1	2.1	2.2
Italy	1.8	1.8	1.8	2.0	2.1
Papua New Guinea	1.5	1.5	1.5	1.5	1.5
Dominican Republic	1.4	1.1	1.1	1.1	1.1
Indonesia	1.2	1.2	1.2	1.2	1.2
German Federal Republic	1.1	1.2	1.2	1.2	1.1
Subtotal	78.1	78.4	80.6	81.4	81.7
Equivalent in metric tons	*2,429*	*2,438*	*2,507*	*2,531*	*2,541*
Change from previous year		+2%	+3%	+1%	0%

Countries producing less than 1 million troy ounces in 1983:	---ACTUAL--- 1983	1984	1985	1986	1987
			PROJECTED		
Zimbabwe	.94	.94	.94	.94	.94
Zambia	.93	.93	.93	.93	.93
France	.80	.84	.79	.79	.79
Brazil	.75	.79	.85	.85	.85
Finland	.73	.77	1.03	.97	.83
Burma	.56	.56	.56	.56	.56
India	.51	.51	.51	.51	.51
Malaysia	.47	.47	.47	.47	.47
Denmark	.43	.38	.40	.43	.45
Iran	.32	.32	.32	.32	.32
Ireland	.31	.31	.31	.31	.31
Turkey	.22	.22	.22	.22	.22
Colombia	.13	.13	.13	.13	.13
Algeria	.12	.12	.12	.12	.12
Tunisia	.09	.14	.13	.13	.13
Great Britain	.08	.08	.08	.08	.08
El Salvador	.06	.06	.06	.06	.06
Nicaragua	.06	.06	.06	.06	.06
Taiwan	.06	.05	.05	.05	.05
Portugal	.03	.03	.03	.03	.03
Ecuador	.03	.03	.03	.03	.03
Ghana	.02	.02	.02	.02	.03
Fiji	.02	.02	.02	.02	.02
Guatemala	.01	.01	.01	.01	.01
Subtotal	7.68	7.79	8.07	8.04	7.93
Equivalent in metric tons	*239*	*242*	*251*	*250*	*247*
TOTAL INTERNATIONAL TRADE COUNTRIES	321.1	325.9	341.0	346.2	348.3
Equivalent in metric tons	*9,986*	*10,136*	*10,605*	*10,767*	*10,832*
Change from previous year		+2%	+5%	+2%	+1%
EASTERN COUNTRIES					
Soviet Union	51.4	52.4	55.0	56.1	56.7
Poland	21.7	22.1	23.2	23.7	23.9
China People's Republic	2.6	2.7	2.8	2.9	2.9
German Democratic Republic	1.4	1.4	1.5	1.5	1.5
North Korea	1.1	1.1	1.2	1.2	1.2
Czechoslovakia	1.0	1.0	1.0	1.0	1.0
Romania	0.8	0.8	0.8	0.8	0.8
Bulgaria	0.8	0.8	0.8	0.8	0.8
Hungary	0.1	0.1	0.1	0.1	0.1
TOTAL EASTERN COUNTRIES	80.9	82.4	86.4	88.1	88.9
Equivalent in metric tons	*2,516*	*2,563*	*2,687*	*2,740*	*2,765*
Change from previous year		+2%	+5%	+2%	+1%
WORLD TOTAL	402.2	408.3	427.4	434.3	437.2
Equivalent in metric tons	*12,502*	*12,698*	*13,292*	*13,507*	*13,597*
Change from previous year		+2%	+5%	+2%	+1%

CONTRIBUTORS OF INFORMATION
ON
MINE PRODUCTION OF SILVER

IN 1983 WITH PROJECTIONS FOR 1984 - 1985 - 1986 - 1987

ARGENTINA

Canepa, Sixto Humberto A.,
Salta
Cantoni, Aldo y Adonis,
San Juan
Cerro Castillo S.A.,
Buenos Aires
Cía. Minera Aguilar S.A.,
Buenos Aires
Cía. Minera Cerro Negro,
San Juan
Geotécnica S.A. Com. e Ind.,
Buenos Aires
Michelet, A. A.,
Neuquén
Río Cincel SAMI y C.,
Buenos Aires
Secretaría de Minería,
Buenos Aires
Soc. Minera Concordia S.A.,
Buenos Aires
Soc. Minera Pirquitas Picchetti y
Cia. S.A.,
Buenos Aires
Tomba Belelli SRL,
San Juan
Velcke Sacifia,
Buenos Aires
Y.M.A.D.,
Buenos Aires

AUSTRALIA

Aberfoyle Limited,
Melbourne, Victoria
Australian Mining & Smelting Ltd.,
Melbourne, Victoria
The Broken Hill Proprietary Co.,
Melbourne, Victoria
Electrolytic Zinc Co. of A/asia Ltd.,
Melbourne, Victoria
Kalgoorlie Mining Associates
Fimiston, Western Australia
Mount Isa Mines Limited,
Brisbane, Queensland
The Mount Lyell Mining & Railway Co.,
Ltd.,
Queenstown, Tasmania
North Broken Hill Limited,
Melbourne, Victoria
Peko-Wallsend Limited,
Sydney, New South Wales
Renison Golfields Consolidated Ltd.,
Sydney, New South Wales
Western Mining Corporation Holdings
Ltd.,
Melbourne, Victoria
Woodlawn Mines,
Goulburn, New South Wales

BELGIUM

Compagnie Royale Asturienne des Mines,
Brussels
Société des Mines et Fonderies de Zinc
de la Vieille-Montagne S.A.,
Angleur

BOLIVIA

Asociación Nacional de Mineros
Medianos,
La Paz

CANADA

Agnico-Eagle Mines Ltd.,
Toronto, Ontario
ASAMERA, Incorporated,
Calgary, Alberta
Avino Mines & Resources Ltd.,
Vancouver, British Columbia
Black Hawk Mining Incorporated,
Toronto, Ontario
California Silver Limited,
Vancouver, British Columbia
COMINCO Limited,
Vancouver, British Columbia

Continued...

CANADA Continued

Cyprus Anvil Mining Corp.,
Faro, Yukon Territory
Dankoe Mines Ltd.,
Toronto, Ontario
Dickenson Mines Limited,
Toronto, Ontario
Dome Mines Limited
Toronto, Ontario
Energy, Mines & Resources Canada
Ottawa, Ontario
Equity Silver Mines Ltd.,
Vancouver, British Columbia
Hudson Bay Mining & Smelting Co. Ltd.,
Toronto, Ontario
Inco Limited
Toronto, Ontario
Kerr Addison Mines Limited
Toronto, Ontario
Kidd Creek Mines Limited
Toronto, Ontario
Lacana Mining Corporation
Toronto, Ontario
Mattabi Mines Limited
Toronto, Ontario
MNR Reprocessing Inc.
Toronto, Ontario
Newmont Mines Limited
Vancouver, British Columbia
Noranda Sales Corporation Ltd.,
Toronto, Ontario
Northgate Exploration Limited
Toronto, Ontario
Pamour Porcupine Mines Ltd.,
Timmins, Ontario
Placer Development Limited
Vancouver, British Columbia
Regional Resources Limited,
Vancouver, British Columbia
Renzy Mines Limited,
North York, Ontario
Rio Algom Limited,
Toronto, Ontario
Sherritt Gordon Mines Ltd.,
Toronto, Ontario
Sigma Mines (Quebec) Ltd.,
Val d'Or, Quebec
Teck Corporation Ltd.,
Val d'Or, Quebec
Terra Mines Ltd.,
Edmonton, Alberta
United Keno Hill Mines Ltd.,
Toronto, Ontario
Utah Mines Ltd., Island Copper Mines,
Port Hardy, British Columbia
Westmin Resources Limited,
Vancouver, British Columbia

CHILE

Compañía Minera y Comercial
Sali Hochschild, S.A.
Corporación Nacional del Cobre,
Santiago
Empresa Minera de Mantos Blancos,
S.A.,
Antofagasta
Servicio Nacional de Geología y
Minería
Santiago

DOMINICAN REPUBLIC

Rosario Dominicana, S.A.,
Santo Domingo

FINLAND

Outokumpu Oy
Helsinki

FRANCE

Mines et Produits Chimiques de
Salsigne,
Paris
Société Minière et Metallurgique
de Peñarroya
Paris

GERMAN FEDERAL REPUBLIC

Metallgesellschaft AG,
Frankfurt
Preussag AG Metall,
Goslar

GHANA

Ashanti Goldfields Corporation
(Ghana) Ltd.,
Accra

GREECE

The Hellenic Chemical Products &
Fertilizers Co., S.A.,
Athens

INDIA

Hutti Gold Mines Company Ltd.,
Karnataka
Luxmi Traders,
Calcutta
Ministry of Steel and Mines,
Indian Bureau of Mines
Nagpur

ITALY

SOLMINE S.p.A.,
Rome

JAPAN

Akenobe Mining Company Ltd.,
Hyogo
Chitose Mines Company Ltd.,
Hokkaido
Chugai Mining Company Ltd.,
Shizuoka
Dowa Mining Company Ltd.,
Tokyo
Furutobe Mining Company Ltd.,
Akita
Hanawa Mining Company Ltd.,
Akita
Hokushin Mining Company Ltd.,
Hokkaido
Hosokura Mining Company Ltd.,
Miyagi
Iwami Mines Company Ltd.,
Kagoshima
Japan Mining Industry Association,
Tokyo
Kabutoyama Mines Company Ltd.,
Hiroshima
Kaneuchi Mining Company Ltd.,
Kyoto
Mitsubishi Metal Corporation
Tokyo
Mitsui Mining & Smelting Co., Ltd.,
Tokyo
Miyauchi Akeshi Mining Co., Ltd.,
Kagoshima
Nippon Mining Company Ltd.,
Tokyo
Omidani Mines Company Ltd.,
Hyogo
Sakoshioodomari Mines Company Ltd.,
Hyogo
Shakanai Mines Company Ltd.,
Akita
Shimokawa Mining Company Ltd.,
Gunma
Tanaka Mininh Company Ltd.,
Yamaguchi
Toyoha Mines Company Ltd.,
Hokkaido
Tsumo Mining Company Ltd.,
Shimane
United Resources Industry Co., Ltd.,
Hokkaido
Yatani Mining Company Ltd.,
Yamagata

MEXICO

Campana de Plata, S.A.
Zacualpan, México
Comisión de Fomento Minero,
Mexico, D. F.
Compañía Fresnillo, S.A.,
México, D. F.
Compañía Minera MSL, S.A. de C.V.,
Durango, Durango
Compañía Minera La Negra y Anexas, S.A.,
Maconi, Querétaro
Compañía de Real del Monte y Pachuca,
S.A.,
Pachuca, Hidalgo
Grucat S.A. de C.V.,
México, D. F.
Industrial Minera México, S.A.,
México, D. F.

Continued...

MEXICO Continued

Industrias Luismin, S.A. de C.V.,
México, D. F.
Industrias Peñoles, S.A. de C.V.,
México, D. F.
La Encantada, S.A. de C.V.,
Ocampo, Coahuila
Minas Nuruapán, S.A.,
Palmarejo, Chihuahua
Minera Capela, S.A. de C.V.,
Coalcomán, Michoacán
Minera Guadalupe, S.A.
Real de Guadalupe, Guerrero
Minera Mexicana Peñoles, S.A.,
Topia, Durango
Minera Mexicana Sombrerete, S.A.,
Sombrerete, Zacatecas
Minera Real de Angeles, S.A. de C.V.,
Zacatecas, Zacatecas
Minera San Francisco del Oro, S.A.,
México, D. F.
Minera Victoria Eugenia, S.A.
Chalchihuites, Zacatecas
Minerales de Bolaños, S.A. de C.V.,
Guadalajara, Jalisco
Restauradora de las Minas de
Catorce, S.A.,
San Luis, Potosí
Rosario México, S.A. de C.V.,
México, D. F.

MOROCCO

Societe Miniere du Djebel Aouam
Casablanca

NAMIBIA

Tsumeb Corporation Limited,
Tsumeb

PAPUA NEW GUINEA

Bougainville Copper Limited,
Bougainville
OK Tedi Mining Ltd.,
Port Moresby

PERU

Colquiminas, S.A.,
Lima
Compañía de Minas Buenaventura, S.A.,
Lima
Compañía Minera Caylloma,
Lima
Compañía Minera del Madrigal, S.A.,
Lima
Compañía Minera Huampar, S.A.,
Lima
Compañía Minera Raura, S.A.,
Lima
Corporación Minera Nor Perú S.A.,
Lima
Empresa Minera del Centro del Perú,
Lima
Minas de Arcata, S.A.
Lima
Sindicato Minero Pacococha S.A.,
Lima

PHILIPPINES

Apex Mining Company, Inc.,
Pasig, Metro Manila
Benguet Corporation,
Makati, Metro Manila
Marcopper Mines Corporation,
Makati, Metro Manila
Philex Mining Corporation,
Pasig, Metro Manila
Surigao Consolidated Mining Co., Inc.,
Pasig, Metro Manila

SOUTH AFRICA

Barberton Mines,
Johannesburg
Blyvooruitzich Gold Mining Co., Ltd.,
Johannesburg
Bracken Mines Ltd.,
Johannesburg
Buffelsfontein Gold Mining Co., Ltd.,
Johannesburg
Chamber of Mines of South Africa
Johannesburg
City Deep Limited,
Johannesburg

Continued...

SOUTH AFRICA Continued

Consolidated Main Reef,
Johannesburg
Crown Mines, Ltd.,
Johannesburg
Deelkraal Gold Mining Co., Ltd.,
Johannesburg
Doorfontein Gold Mining Co., Ltd.,
Johannesburg
Durban Roodepoort Deep Ltd.,
Johannesburg
East Daggafontein Mines,
Johannesburg
East Dreifontein Gold Mining
Co., Ltd.,
Johannesburg
East Rand Proprietary Mines Ltd.,
Johannesburg
Elandsrand Gold Mining Co., Ltd.,
Johannesburg
Elsburg Gold Mining Co., Ltd.,
Johannesburg
Freddies Consolidated Mines Ltd.,
Johannesburg
Free State Geduld Mines, Ltd.,
Johannesburg
Free State Saaiplaas Gold Mining
Company, Ltd.,
Johannesburg
The Grootvlei Proprietary Mines
Limited,
Johannesburg
Harmony Gold Mining Co., Ltd.,
Johannesburg
Hartebeestfontein Gold Mining
Company, Ltd.,
Johannesburg
Impala Platinum Limited,
Johannesburg
Kinross Mines Limited,
Johannesburg
Kloof Gold Mining Co., Ltd.,
Johannesburg
Leslie Gold Mines Limited,
Johannesburg
Libanon Gold Mining Co., Ltd.,
Johannesburg
Loraine Gold Mines, Ltd.,
Johannesburg
The Messina (Tvl.) Development
Company, Ltd.,
Johannesburg
Marievale Consolidated Mines,
Ltd.,
Johannesburg
O'Kiep Copper Company, Ltd.,
Johannesburg
President Brand Gold Mining Co., Ltd.,
Johannesburg
President Steyn Gold Mining Co., Ltd.,
Johannesburg
Prieska Copper Mine (Pty.) Limited,
Johannesburg
Randfontein Estates Gold Mining
Company, Ltd.,
Johannesburg
Rustenburg Platinum Mines, Ltd.,
Johannesburg
St. Helena Gold Mines, Ltd.,
Johannesburg
South African Land and Exploration
Company, Ltd.,
Johannesburg
Stilfontein Gold Mining Co., Ltd.,
Johannesburg
Unisel Gold Mining Co., Ltd.,
Johannesburg
Vaal Reefs Exploration and Mining
Company, Ltd.,
Venterspost Gold Mining Co., Ltd.,
Johannesburg
Vlakfontein Gold Mining Co., Ltd.,
Johannesburg
Welkom Gold Mining Co., Ltd.,
Johannesburg
West Driefontein Gold Mining
Company, Ltd.,
Johannesburg
Western Areas Gold Mining Co., Ltd.,
Johannesburg
Western Deep Levels, Ltd.,
Johannesburg
Western Holdings, Ltd.,
Johannesburg
Winkelhaak Mines, Ltd.,
Johannesburg
Witwatersrand Nigel Limited,
Johannesburg
West Rand Consolidated Mines Ltd.,
Johannesburg

SWEDEN

Boliden Aktiebolag,
Stockholm

TUNISIA

Société Minière et Metallurgique
de Tunisie
Tunis

UNITED STATES

AMAX Incorporated
Greenwich, Connecticut
AMAX Lead & Zinc, Inc.,
Clayton, Missouri
Amoco Metals Company,
Englewood, Colorado
AMSELCO Minerals,
Denver, Colorado
Anaconda Minerals Company,
Denver, Colorado
J. Aron & Company/Goldman Sachs
New York, New York
Asamera Minerals (U.S.) Inc.,
Sparks, Nevada
ASARCO Incorporated
New York, New York
Bunker Limited Partnership
Kellogg, Idaho
Callahan Mining Corporation,
Wallace, Idaho
Clayton Silver Mines, Inc.
Wallace, Idaho
Coeur d'Alene Mines Corporation,
Wallace, Idaho
Cominco American Incorporated,
Spokane, Washington
Consolidated Silver Corporation,
Wallace, Idaho
Copper Range Company,
Round Mountain, Nevada
Duval Sales Corporation,
Houston, Texas
Federal Resources Corporation,
Salt Lake City, Utah
Freeport Minerals Company,
New York, New York
The Goldfield Corporation
Melbourne, Florida
Goldfield Mining Corporation
New York, New York
Hecla Mining Company
Wallace, Idaho
Homestake Mining Company,
San Francisco, California
Inspiration Consolidated Copper Co.,
Phoenix, Arizona
Intermountain Exploration Company,
Boulder City, Nevada
Kay Mining & Milling Corporation,
Las Vegas, Nevada
Kennecott Corporation,
Trumbull, Connecticut
Little Squaw Gold Mining Corporation,
Spokane, Washington
MAPCO Minerals Corporation,
Golden, Colorado
Nerco Minerals Company
Fairbanks, Alaska
Newmont Mining Corporation,
New York, New York
Newpark Resources, Inc.,
Metairie, Louisiana
Pegasus Gold Inc.,
Spokane, Washington
Pinto Valley Copper Corporation,
Miami, Arizona
Placer U.S., Inc.,
San Francisco, California
Ranchers Exploration and Development
Corporation,
Albuquerque, New Mexico
St. Joe Minerals Corporation
New York, New York
Silver Ventures Corporation,
Rollinsville, Colorado
Smoky Valley Mining
Round Mountain, Nevada
Southern Peru Copper Corporation,
New York, New York
Sunshine Mining Company,
Dallas, Texas
Thomas Consolidated Mines, Inc.,
Spokane, Washington
Union Carbide Corporation
Danbury, Connecticut
United Mining Corporation
Virginia City, Nevada
U.S. Bureau of Mines,
Washington, D. C.
White Copper Division
White Pine, Michigan

ZAIRE

GECAMINES
Lubumbashi

ZAMBIA

Central Statistical Office,
Lusaka
Zambia Consolidated Copper Mines
Limited,
Kabwe